

#2

PCT10

## RAW SEQUENCE LISTING

DATE: 01/09/2002

PATENT APPLICATION: US/10/018,386

TIME: 12:13:24

Input Set : A:\MSB-7268.txt

Output Set: N:\CRF3\01082002\J018386.raw

ENTERED

3 <110> APPLICANT: Bayer AG  
4 Friedrich, Gabi  
5 Hagen, Gustav  
6 Wick, Maresa  
7 Zubov, Dmitry  
8 Dubois-Stringfellow, Nathalie A.  
10 <120> TITLE OF INVENTION: METHODS FOR MODULATING ANGIOGENESIS  
12 <130> FILE REFERENCE: 17956A-000500PC  
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/018,386  
C--> 15 <141> CURRENT FILING DATE: 2001-12-13  
17 <150> PRIOR APPLICATION NUMBER: EP 99113502.1  
18 <151> PRIOR FILING DATE: 1999-07-02  
20 <160> NUMBER OF SEQ ID NOS: 8  
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25 <211> LENGTH: 2173  
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32 ggacccctgg ccagccctgg cccagcctc tgccggagcc ctctgtggag gcagagccag 180  
33 tggagcccag tgaggcaggg ctgcttgga gccaccggcc tgcaactcag gaaccctcc 240  
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40 aggtgcttct ggagaaccga gtgcataagc aggagctaga gctgctcaac aatgagctgc 660  
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60 cactcaagaa agtgggtgatg atgatccgac cgaaccccaa caccttccac taagccagct 1860
61 cccctctctg acctctcgtg gccattgcca ggagcccacc ctggtcacgc tggccacagc 1920
62 acaaagaaca actctcacc agttcatcct gaggtcggga ggaccgggat gctggattct 1980
63 gttttccgaa gtcactgcag cggatgatgg aactgaatcg atacggtgtt ttctgtccct 2040
64 cctactttcc ttcacaccag acagcccctc atgtctccag gacaggacag gactacagac 2100
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66 aaaaaaaaaa aaa 2173
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70 <211> LENGTH: 493
71 <212> TYPE: PRT
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79 20 25 30
81 Gly Ser Pro Arg Glu Phe Ile Tyr Leu Asn Arg Tyr Lys Arg Ala Gly
82 35 40 45
84 Glu Ser Gln Asp Lys Cys Thr Tyr Thr Phe Ile Val Pro Gln Gln Arg
85 50 55 60
87 Val Thr Gly Ala Ile Cys Val Asn Ser Lys Glu Pro Glu Val Leu Leu
88 65 70 75 80
90 Glu Asn Arg Val His Lys Gln Glu Leu Glu Leu Leu Asn Asn Glu Leu
91 85 90 95
93 Leu Lys Gln Lys Arg Gln Ile Glu Thr Leu Gln Gln Leu Val Lys Val
94 100 105 110
96 Asp Gly Gly Ile Val Ser Glu Val Lys Leu Leu Arg Lys Glu Ser Arg
97 115 120 125
99 Asn Met Asn Ser Arg Val Thr Gln Leu Tyr Met Gln Leu Leu His Glu
100 130 135 140
102 Ile Ile Arg Lys Arg Asp Asn Ala Leu Glu Leu Ser Gln Leu Glu Asn
103 145 150 155 160
105 Arg Ile Leu Asn Gln Thr Ala Asp Met Leu Gln Leu Ala Ser Lys Tyr
106 165 170 175
108 Lys Asp Leu Glu His Lys Tyr Gln His Leu Ala Thr Leu Ala His Asn
109 180 185 190
111 Gln Ser Glu Ile Ile Ala Gln Leu Glu Glu His Cys Gln Arg Val Pro
112 195 200 205
114 Ser Ala Arg Pro Val Pro Gln Pro Pro Pro Ala Ala Pro Pro Arg Val
115 210 215 220
117 Tyr Gln Pro Pro Thr Tyr Asn Arg Ile Ile Asn Gln Ile Ser Thr Asn
118 225 230 235 240
120 Glu Ile Gln Ser Asp Gln Asn Leu Lys Val Leu Pro Pro Pro Leu Pro
121 245 250 255
123 Thr Met Pro Thr Leu Thr Ser Leu Pro Ser Ser Thr Asp Lys Pro Ser
124 260 265 270
126 Gly Pro Trp Arg Asp Cys Leu Gln Ala Leu Glu Asp Gly His Asp Thr

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Input Set : A:\MSB-7268.txt

Output Set: N:\CRF3\01082002\J018386.raw

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129 Ser Ser Ile Tyr Leu Val Lys Pro Glu Asn Thr Asn Arg Leu Met Gln
130          290          295          300
132 Val Trp Cys Asp Gln Arg His Asp Pro Gly Gly Trp Thr Val Ile Gln
133 305          310          315          320
135 Arg Arg Leu Asp Gly Ser Val Asn Phe Phe Arg Asn Trp Glu Thr Tyr
136          325          330          335
138 Lys Gln Gly Phe Gly Asn Ile Asp Gly Glu Tyr Trp Leu Gly Leu Glu
139          340          345          350
141 Asn Ile Tyr Trp Leu Thr Asn Gln Gly Asn Tyr Lys Leu Leu Val Thr
142          355          360          365
144 Met Glu Asp Trp Ser Gly Arg Lys Val Phe Ala Glu Tyr Ala Ser Phe
145          370          375          380
147 Arg Leu Glu Pro Glu Ser Glu Tyr Tyr Lys Leu Arg Leu Gly Arg Tyr
148 385          390          395          400
150 His Gly Asn Ala Gly Asp Ser Phe Thr Trp His Asn Gly Lys Gln Phe
151          405          410          415
153 Thr Thr Leu Asp Arg Asp His Asp Val Tyr Thr Gly Asn Cys Ala His
154          420          425          430
156 Tyr Gln Lys Gly Gly Trp Trp Tyr Asn Ala Cys Ala His Ser Asn Leu
157          435          440          445
159 Asn Gly Val Trp Tyr Arg Gly Gly His Tyr Arg Ser Arg Tyr Gln Asp
160          450          455          460
162 Gly Val Tyr Trp Ala Glu Phe Arg Gly Gly Ser Tyr Ser Leu Lys Lys
163 465          470          475          480
165 Val Val Met Met Ile Arg Pro Asn Pro Asn Thr Phe His
166          485          490
169 <210> SEQ ID NO: 3
170 <211> LENGTH: 498
171 <212> TYPE: PRT
172 <213> ORGANISM: Homo sapiens
174 <400> SEQUENCE: 3
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178 Ile Gly Cys Ser Asn Gln Arg Arg Ser Pro Glu Asn Ser Gly Arg Arg
179          20          25          30
181 Tyr Asn Arg Ile Gln His Gly Gln Cys Ala Tyr Thr Phe Ile Leu Pro
182          35          40          45
184 Glu His Asp Gly Asn Cys Arg Glu Ser Thr Thr Asp Gln Tyr Asn Thr
185          50          55          60
187 Asn Ala Leu Gln Arg Asp Ala Pro His Val Glu Pro Asp Phe Ser Ser
188 65          70          75          80
190 Gln Lys Leu Gln His Leu Glu His Val Met Glu Asn Tyr Thr Gln Trp
191          85          90          95
193 Leu Gln Lys Leu Glu Asn Tyr Ile Val Glu Asn Met Lys Ser Glu Met
194          100          105          110
196 Ala Gln Ile Gln Gln Asn Ala Val Gln Asn His Thr Ala Thr Met Leu
197          115          120          125
199 Glu Ile Gly Thr Ser Leu Leu Ser Gln Thr Ala Glu Gln Thr Arg Lys

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202 Leu Thr Asp Val Glu Thr Gln Val Leu Asn Gln Thr Ser Arg Leu Glu
203 145      150      155      160
205 Ile Gln Leu Leu Glu Asn Ser Leu Ser Thr Tyr Lys Leu Glu Lys Gln
206      165      170      175
208 Leu Leu Gln Gln Thr Asn Glu Ile Leu Lys Ile His Glu Lys Asn Ser
209      180      185      190
211 Leu Leu Glu His Lys Ile Leu Glu Met Glu Gly Lys His Lys Glu Glu
212      195      200      205
214 Leu Asp Thr Leu Lys Glu Glu Lys Glu Asn Leu Gln Gly Leu Val Thr
215      210      215      220
217 Arg Gln Thr Tyr Ile Ile Gln Glu Leu Glu Lys Gln Leu Asn Arg Ala
218 225      230      235      240
220 Thr Thr Asn Asn Ser Val Leu Gln Lys Gln Gln Leu Glu Leu Met Asp
221      245      250      255
223 Thr Val His Asn Leu Val Asn Leu Cys Thr Lys Glu Gly Val Leu Leu
224      260      265      270
226 Lys Gly Gly Lys Arg Glu Glu Glu Lys Pro Phe Arg Asp Cys Ala Asp
227      275      280      285
229 Val Tyr Gln Ala Gly Phe Asn Lys Ser Gly Ile Tyr Thr Ile Tyr Ile
230      290      295      300
232 Asn Asn Met Pro Glu Pro Lys Lys Val Phe Cys Asn Met Asp Val Asn
233 305      310      315      320
235 Gly Gly Gly Trp Thr Val Ile Gln His Arg Glu Asp Gly Ser Leu Asp
236      325      330      335
238 Phe Gln Arg Gly Trp Lys Glu Tyr Lys Met Gly Phe Gly Asn Pro Ser
239      340      345      350
241 Gly Glu Tyr Trp Leu Gly Asn Glu Phe Ile Phe Ala Ile Thr Ser Gln
242      355      360      365
244 Arg Gln Tyr Met Leu Arg Ile Glu Leu Met Asp Trp Glu Gly Asn Arg
245      370      375      380
247 Ala Tyr Ser Gln Tyr Asp Arg Phe His Ile Gly Asn Glu Lys Gln Asn
248 385      390      395      400
250 Tyr Arg Leu Tyr Leu Lys Gly His Thr Gly Thr Ala Gly Lys Gln Ser
251      405      410      415
253 Ser Leu Ile Leu His Gly Ala Asp Phe Ser Thr Lys Asp Ala Asp Asn
254      420      425      430
256 Asp Asn Cys Met Cys Lys Cys Ala Leu Met Leu Thr Gly Gly Trp Trp
257      435      440      445
259 Phe Asp Ala Cys Gly Pro Ser Asn Leu Asn Gly Met Phe Tyr Thr Ala
260      450      455      460
262 Gly Gln Asn His Gly Lys Leu Asn Gly Ile Lys Trp His Tyr Phe Lys
263 465      470      475      480
265 Gly Pro Ser Tyr Ser Leu Arg Ser Thr Thr Met Met Ile Arg Pro Leu
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273 <211> LENGTH: 496
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DATE: 01/09/2002

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Output Set: N:\CRF3\01082002\J018386.raw

275 <213> ORGANISM: Homo sapiens  
 277 <400> SEQUENCE: 4  
 278 Met Trp Gln Ile Val Phe Phe Thr Leu Ser Cys Asp Leu Val Leu Ala  
 279 1 5 10 15  
 281 Ala Ala Tyr Asn Asn Phe Arg Lys Ser Met Asp Ser Ile Gly Lys Lys  
 282 20 25 30  
 284 Gln Tyr Gln Val Gln His Gly Ser Cys Ser Tyr Thr Phe Leu Leu Pro  
 285 35 40 45  
 287 Glu Met Asp Asn Cys Arg Ser Ser Ser Ser Pro Tyr Val Ser Asn Ala  
 288 50 55 60  
 290 Val Gln Arg Asp Ala Pro Leu Glu Tyr Asp Asp Ser Val Gln Arg Leu  
 291 65 70 75 80  
 293 Gln Val Leu Glu Asn Ile Met Glu Asn Asn Thr Gln Trp Leu Met Lys  
 294 85 90 95  
 296 Leu Glu Asn Tyr Ile Gln Asp Asn Met Lys Lys Glu Met Val Glu Ile  
 297 100 105 110  
 299 Gln Gln Asn Ala Val Gln Asn Gln Thr Ala Val Met Ile Glu Ile Gly  
 300 115 120 125  
 302 Thr Asn Leu Leu Asn Gln Thr Ala Glu Gln Thr Arg Lys Leu Thr Asp  
 303 130 135 140  
 305 Val Glu Ala Gln Val Leu Asn Gln Thr Thr Arg Leu Glu Leu Gln Leu  
 306 145 150 155 160  
 308 Leu Glu His Ser Leu Ser Thr Asn Lys Leu Glu Lys Gln Ile Leu Asp  
 309 165 170 175  
 311 Gln Thr Ser Glu Ile Asn Lys Leu Gln Asp Lys Asn Ser Phe Leu Glu  
 312 180 185 190  
 314 Lys Lys Val Leu Ala Met Glu Asp Lys His Ile Ile Gln Leu Gln Ser  
 315 195 200 205  
 317 Ile Lys Glu Glu Lys Asp Gln Leu Gln Val Leu Val Ser Lys Gln Asn  
 318 210 215 220  
 320 Ser Ile Ile Glu Glu Leu Glu Lys Lys Ile Val Thr Ala Thr Val Asn  
 321 225 230 235 240  
 323 Asn Ser Val Leu Gln Lys Gln Gln His Asp Leu Met Glu Thr Val Asn  
 324 245 250 255  
 326 Asn Leu Leu Thr Met Met Ser Thr Ser Asn Ser Ala Lys Asp Pro Thr  
 327 260 265 270  
 329 Val Ala Lys Glu Glu Gln Ile Ser Phe Arg Asp Cys Ala Glu Val Phe  
 330 275 280 285  
 332 Lys Ser Gly His Thr Thr Asn Gly Ile Tyr Thr Leu Thr Phe Pro Asn  
 333 290 295 300  
 335 Ser Thr Glu Glu Ile Lys Ala Tyr Cys Asp Met Glu Ala Gly Gly Gly  
 336 305 310 315 320  
 338 Gly Trp Thr Ile Ile Gln Arg Arg Glu Asp Gly Ser Val Asp Phe Gln  
 339 325 330 335  
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 342 340 345 350  
 344 Tyr Trp Leu Gly Asn Glu Phe Val Ser Gln Leu Thr Asn Gln Gln Arg  
 345 355 360 365  
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/018,386

DATE: 01/09/2002

TIME: 12:13:25

Input Set : A:\MSB-7268.txt

Output Set: N:\CRF3\01082002\J018386.raw

L:14 M:270 C: Current Application Number differs, Replaced Application Number  
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date